



NIH133.1CP1C2.TXT

SEQUENCE LISTING

<110> Luyten, Frank P.
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Hoang, Bang
Wang, Shouwen

<120> ISOLATION AND USE OF TISSUE
GROWTH-INDUCING FRZB PROTEIN

<130> NIH133.1CP1C2

<140> US 10/090049

<141> 2002-02-28

<150> US 09/289,268

<151> 1999-04-09

<150> PCT US97/18362

<151> 1997-10-08

<150> US 08/822333

<151> 1997-03-20

<150> US 08/729,452

<151> 1996-10-11

<160> 23

<170> FastSEQ for windows Version 4.0

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<213> Bos taurus

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<213> Bos taurus

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35 40 45
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50 55 60
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Gly Val Cys Ile Ser Pro Glu Ala Ile Val Thr Ala Asp Gly Ala Asp
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Phe Pro Met Asp Ser Ser Asn Gly Asn Cys Arg Gly Ala Ser Ser Glu
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195 200 205
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35 40 45
Asn Met Thr Lys Met Pro Asn His Leu His His Ser Thr Gln Ala Asn
50 55 60
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65 70 75 80
Ser Pro Asp Leu Leu Phe Phe Leu Cys Ala Met Tyr Ala Pro Ile Cys
85 90 95
Thr Ile Asp Phe Gln His Glu Pro Ile Lys Pro Cys Lys Ser Val Cys
100 105 110
Glu Arg Ala Arg Gln Gly Cys Glu Pro Ile Leu Ile Lys Tyr Arg His
115 120 125
Ser Trp Pro Glu Asn Leu Ala Cys Glu Glu Leu Pro Val Tyr Asp Arg
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Gly Val Cys Ile Ser Pro Glu Ala Ile Val Thr Ala Asp Gly Ala Asp
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Phe Pro Met Asp Ser Ser Asn Gly Asn Cys Arg Gly Ala Ser Ser Glu
165 170 175
Arg Cys Lys Cys Lys Pro Ile Arg Ala Thr Gln Lys Thr Tyr Phe Arg
180 185 190
Asn Asn Tyr Asn Tyr Val Ile Arg Ala Lys Val Lys Glu Ile Lys Thr
195 200 205
Lys Cys His Asp Val Thr Ala Val Val Glu Val Lys Glu Ile Leu Lys
210 215 220
Ser Ser Leu Val Asn Ile Pro Arg Asp Thr Val Asn Leu Tyr Thr Ser
225 230 235 240
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245 250 255
Met Gly Tyr Glu Asp Glu Glu Arg Ser Arg Leu Leu Leu Val Glu Gly
260 265 270
Ser Ile Ala Glu Lys Trp Lys Asp Arg Leu Gly Lys Lys Val Lys Arg
275 280 285
Trp Asp Met Lys Leu Arg His Leu Gly Leu Ser Lys Ser Asp Ser Ser
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<212> PRT
<213> Rattus norvegicus

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35 40 45
Glu Leu Lys Phe Phe Leu Cys Ser Met Tyr Ala Pro Val Cys Thr Val
50 55 60
Leu Glu Gln Ala Leu Pro Pro Cys Arg Ser Leu Cys Glu Arg Ala Gln
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 35 40 45
 Asp Leu Gln Leu Phe Leu Cys Ser Leu Tyr Val Pro Val Cys Thr Ile
 50 55 60
 Leu Glu Arg Pro Ile Pro Pro Cys Arg Ser Leu Cys Glu Ser Ala Arg
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 35 40 45
 Met Pro Asn His Leu His His Ser Thr Gln Ala Asn Ala Ile Leu Ala
 50 55 60
 Ile Glu Gln Phe Glu Gly Leu Leu Thr Thr Glu Cys Ser Gln Asp Leu
 65 70 75 80
 Leu Phe Phe Leu Cys Ala Met Tyr Ala Pro Ile Cys Thr Ile Asp Phe
 85 90 95
 Gln His Glu Pro Ile Lys Pro Cys Lys Ser Val Cys Glu Arg Ala Arg
 100 105 110
 Ala Gly Cys Glu Pro Ile Leu Ile Lys Tyr Arg His Thr Trp Pro Glu
 115 120 125
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 Asp Phe Pro Met Asp Ser Asn Asn Gly Asn Cys Gly Ser Thr Ala Gly
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 Lys Asn Asn Tyr Asn Tyr Val Ile Arg Ala Lys Val Lys Glu Val Lys
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 225 230 235 240
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 50 55 60
 Leu Ala Ile Glu Gln Phe Glu Gly Leu Leu Gly Thr His Cys Ser Pro
 65 70 75 80
 Asp Leu Leu Phe Phe Leu Cys Ala Met Tyr Ala Pro Ile Cys Thr Ile
 85 90 95
 Asp, Phe Gln His Glu Pro Ile Lys Pro Cys Lys Ser Val Cys Glu Arg
 100 105 110
 Ala Arg Gln Gly Cys Glu Pro Ile Leu Ile Lys Tyr Arg His Ser Trp
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 Pro Glu Ser Leu Ala Cys Glu Leu Pro Val Tyr Asp Arg Gly Val
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 Lys Cys Lys Pro Arg Ala Thr Gln Lys Thr Tyr Phe Arg Asn Asn Tyr
 180 185 190
 Asn Tyr Val Ile Arg Ala Lys Val Lys Glu Ile Lys Thr Lys Cys His
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 Asp Val Thr Ala Val Val Glu Val Lys Glu Ile Leu Lys Ser Ser Leu
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 Val Asn Ile Pro Arg Asp Thr Val Asn Leu Tyr Thr Ser Ser Gly Cys
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 Leu Cys Pro Pro Leu Asn Val Asn Glu Glu Tyr Ile Ile Met Gly Tyr
 245 250 255
 Glu Asp Glu Glu Arg Ser Arg Leu Leu Val Glu Gly Ser Ile Ala
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